AMENDMENTS TO THE CLAIMS

- 1. (Currently amended) An isolated protein comprising an the amino acid sequence of SEO ID NO: 2.
 - 2. (Withdrawn) A polynucleotide encoding the protein of claim 1.
- **3.** (Withdrawn) A polynucleotide according to claim 2, which comprises the DNA sequence of SEQ ID NO: 1.
- **4.** (Withdrawn) A polynucleotide selected from the group consisting of the following sequences:
 - (c) a DNA sequence of SEQ ID NO: 1,
- (d) a nucleotide sequence that has at least 70% homology to the DNA sequence of SEQ ID NO: 1 and encodes a protein having cyclic depsipeptide synthetase activity,
- (e) a modified DNA sequence of the DNA sequence of SEQ ID NO 1 that has one or more modifications selected from a substitution, a deletion, an addition and an insertion and encodes a protein having cyclic depsipeptide synthetase activity, and
- (f) a nucleotide sequence that hybridizes with the DNA sequence of SEQ ID NO: 1 under stringent conditions and encodes a protein having cyclic depsipeptide synthetase activity.
- **5.** (Withdrawn) The polynucleotide according to claim 4, wherein sequence (d) is a nucleotide sequence that has at least 80% homology to the DNA sequence of SEQ ID NO: 1.
- 6. (Withdrawn) The polynucleotide according to claim 4, wherein sequence (d) is a nucleotide sequence that has at least 90% homology to the DNA sequence of SEQ ID NO: 1.

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- 7. (Withdrawn) A recombinant vector comprising the polynucleotide of claim 2 or claim 4.
 - 8. (Withdrawn) A host comprising the expression vector of claim 7.
- 9. (Withdrawn) The host according to claim 8, which expresses a cyclic depsipeptide synthetase.
- 10. (Withdrawn) The host according to claim 8, which is a substance PF1022-producing microorganism.
- 11. (Withdrawn) A method for producing a cyclic depsipeptide, which comprises the steps of culturing the host of claim 8 and collecting the cyclic depsipeptide from the culture medium.
- 12. (Withdrawn) The method according to claim 11, wherein the cyclic depsipeptide is the substance PF1022 and a derivative thereof.

13. (Currently amended) A method for producing a protein having cyclo(D-lactyl-L-N-methylleucyl-D-3-phenyllactyl-L-N-methylleucyl-D-lactyl-L-N-methylleucyl-D-3-phenyllactyl-L-N-methylleucyl) (PF1022) synthetase activity, which comprises the steps of:

culturing a host cell transformed with a vector containing a nucleotide sequence under conditions suitable for protein expression, wherein the nucleotide sequence is selected from the group consisting of:

- (a) a nucleotide sequence encoding the amino acid sequence of SEQ ID NO: 2;
- (b) the nucleotide sequence of SEQ ID NO: 1;
- (c) a nucleotide sequence that hybridizes with the nucleotide sequence of SEQ ID NO: 1 under stringent conditions at 0.2 x SSC concentration (1 x SSC: 15 mM trisodium citrate, 150 mM sodium chloride) in a 0.1 % SDS solution at 60°C for 15 minutes and which encodes a protein having PF1022 synthetase activity; and
- (d) a nucleotide sequence that <u>has</u> at least 95% homology to the nucleotide sequence of SEQ ID NO: 1 and which encodes a protein having PF1022 synthetase activity; and collecting the protein from the culture medium.

14. (Cancelled)

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- 15. (Currently amended) An isolated protein encoded by a nucleotide sequence selected from the group consisting of:
 - (a) a nucleotide sequence encoding the amino acid sequence of SEQ ID NO: 2;
 - (b) the nucleotide sequence of SEQ ID NO: 1;
- (c) a nucleotide sequence that hybridizes with the nucleotide sequence of SEQ ID NO: 1 under stringent conditions at 0.2 x SSC concentration (1 x SSC: 15 mM trisodium citrate, 150 mM sodium chloride) in a 0.1 % SDS solution at 60°C for 15 minutes and which encodes a protein having PF1022 synthetase activity; and
- (d) a nucleotide sequence that <u>has</u> at least 95% homology to the nucleotide sequence of SEQ ID NO: 1 and which encodes a protein having PF1022 synthetase activity.

16-17. (Cancelled)